

## PATENT ABSTRACTS OF JAPAN

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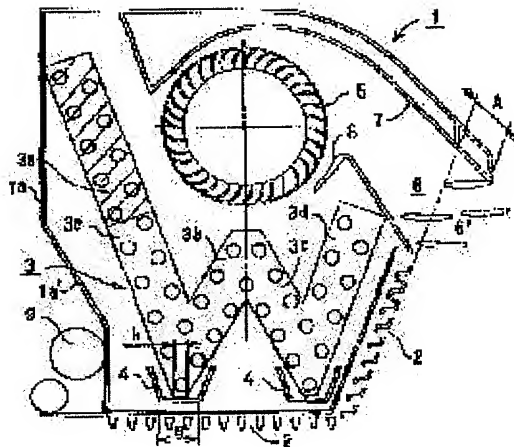
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## (54) AIR CONDITIONER

## (57)Abstract:

**PROBLEM TO BE SOLVED:** To make compact the main body and increase the front surface area of a heat exchanger and enhance the efficiency of heat exchange and thereby send air more effectively.

**SOLUTION:** An air inlet 2 is provided on the lower part of a main body and the lower part of the front side. A heat exchanger 3 provided on an air passage which connects the air inlet 2 to an air outlet 3 provided on the upper part on the front side, forms a substantially W-letter cross section with a first downward inclination section 3a which is inclined downward from the upper elevation on the rear part of the main body, a first upward inclination section 3b which is inclined upward from the upper end, a second downward inclination section 3c which is inclined downward from the lower end, a second upward inclination section 3d which is inclined from the lower end. A drain pan 4 is provided on the first downward inclination section and the lower part of the first upward inclination section and the second downward inclination section and the lower part of the second upward inclination section respectively, thereby providing an air supply fan 5 in the upper part of the heat exchanger.



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## CLAIMS

[Claim(s)]

[Claim 1]The first declination part which was provided with the following and made said heat exchanger incline caudad from a rear higher rank of a main part, The first upper part inclined part which made the upper part incline from the lower end, and the second declination part made to incline caudad from the upper bed, An air conditioner which forms in an abbreviated W character-like section by the second upper part inclined part which made the upper part incline from the lower end, and is characterized by providing said drain pan in the lower part of said first declination part and said first upper part inclined part, and the lower part of said second declination part and said second upper part inclined part, respectively.

A suction opening provided in a front lower part and the lower part of a main part.

An outlet provided in a front top.

A blower fan located in a heat exchanger which carries out heat exchange of the air which was provided in an air duct which connects these suction openings and an outlet, and was inhaled from said suction opening, and its upper part.

Connected piping accommodated in a rear guider and a stabilizer which constitute the upper and lower sides of said air duct between a fan of the broadcasting style, and said outlet, a drain pan provided in the lower part of said heat exchanger, and a seat part which it was connected to said heat exchanger and divided with a base to a back back lower part of a main part.

[Claim 2]The air conditioner according to claim 1 extending an upper bed part of said first declination part to back of said blower fan.

[Claim 3]The air conditioner according to claim 1 forming in narrow shape a lower end of said first declination part which counters said drain pan, and said first upper part inclined part, and a lower end of said second declination part and said second upper part inclined part.

[Claim 4]The air conditioner according to claim 1 having turned caudad a front face of a main part which provided said suction opening and said outlet, and making it incline.

[Claim 5]The air conditioner according to claim 1 or 4 having made the outlet side incline low and forming said air duct between said blower fan and said outlet.

[Claim 6]The air conditioner according to claim 1 or 5 extending a tip of said rear guider ahead.

[Claim 7]Said seat part is an air conditioner to claim 1 statement giving, dividing and forming an inclined part almost parallel to said first declination part in said base which counters said first declination part.

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**DETAILED DESCRIPTION**

[Detailed Description of the Invention]

[0001]

[Field of the Invention]This invention makes the surface area of a heat exchanger increase, raises heat exchanging efficiency, and relates to the structure which enabled it to ventilate more effectively while it achieves miniaturization of a main part in details more with respect to an air conditioner.

[0002]

[Description of the Prior Art]The suction opening 2 provided in the front face and the upper surface of the main part 1 as drawing 2 showed the conventional air conditioner, for example, The heat exchanger 3 constituted from vertical section 3a', back inclined part 3b' which made back incline from the upper bed, and declination part 3c' made to incline caudad from the back end by the air duct which connects the outlet 6 provided in the front lower part, Form the blower fan 5 and the drain pan 4 is formed in the lower part of said vertical section 3a' and said declination part 3c', The rear guider 7 and the stabilizer 8 which made said air duct between said blower fan 5 and said outlet 6 follow the base 1a constituted, and the connected piping 9 linked to said heat exchanger 3 was accommodated in the seat part divided to the back side of the rear guider 7.

[0003]However, while achieving miniaturization of the main part, in order to make the surface area of said heat exchanger 3 increase more, to raise heat exchanging efficiency more and to have enabled it to ventilate still more effectively from said outlet 6, with composition of that said heat exchanger 3 grade explained above, there was a limit naturally.

[0004]

[Problem(s) to be Solved by the Invention]In this invention, while achieving miniaturization of a main part in view of the above-mentioned problem, the surface area of a heat exchanger is made to increase, heat exchanging efficiency is raised, and it aims at providing the air conditioner which enabled it to ventilate more effectively.

[0005]

[Means for Solving the Problem]A suction opening provided in a front lower part and the lower part of a main part in order that this invention might solve the above-mentioned problem, A blower fan located in a heat exchanger which carries out heat exchange of the air which was provided in an air duct which connects an outlet provided in a front top, and these suction openings and an outlet, and was inhaled from said suction opening, and its upper part, A rear guider and a stabilizer which constitute the upper and lower sides of said air duct between a fan of the broadcasting style, and said outlet, It is connected with a drain pan provided in the lower part of said heat exchanger at said heat exchanger, The first declination part which consisted of connected piping accommodated in a seat part divided with a base to a back back lower part of a main part, and made said heat exchanger incline caudad from a rear higher rank of a main part, The first upper part inclined part which made the upper part incline from the lower end, and the second declination part made to incline caudad from the upper bed, It forms in an abbreviated W character-like section by the second upper part inclined part which made the upper part incline from the lower end, and has composition of having provided said drain pan in the lower part of said first declination part and said first upper part inclined part, and the lower part of said second declination part and said second upper part inclined part, respectively.

[0006]It has composition which extended to back of said blower fan in an upper bed part of said first declination part.

[0007]It has composition which formed in narrow shape a lower end of said first declination part which counters said drain pan, and said first upper part inclined part, and a lower end of said second declination part and said second upper part inclined part.

[0008]It has composition of having turned caudad a front face of a main part which provided said suction opening and said outlet, and having made it inclining.

[0009]It has composition which made the outlet side incline low and formed said air duct between said blower fan and said outlet.

[0010]It has composition which extended ahead in a tip of said rear guider.

[0011]Said seat part has composition which gave, divided and formed an inclined part almost parallel to said first declination part in said base which counters said first declination part.

[0012]

[Embodiment of the Invention]By the above-mentioned structure, while achieving miniaturization of a main part, the surface area of a heat exchanger is made to increase, heat exchanging efficiency is raised, and it becomes the air conditioner which enabled it to ventilate more effectively.

[0013]

[Example] Hereafter, the example of this invention is described in detail based on a drawing. The base where 1 constitutes the main part of an interior unit of an air conditioner, and 1a constitutes the main part in drawing 1. The suction opening by which 2 was provided in the lower part and the front lower part of the main part 1, the heat exchanger provided in the air duct which, as for 3, connects the suction opening 2 and the outlet which were provided in the front top of said main part 1, and which is mentioned later, The drain pan which 4 countered the lower end of the heat exchanger 3, and was provided, and 5 are provided in said air duct, The blower fan for sending out to the outlet which mentions later the air in which heat exchange was carried out by said heat exchanger 3, The air by which 6 was absorbed from said suction opening 2 by the fan 5 of the broadcasting style, and heat exchange was carried out by said heat exchanger 3, The outlet for having a wind back board and blowing off towards the interior of a room, the rear guider from which 7 constitutes the upper part of said air duct between said blower fan 5 and said outlet 6, The stabilizer from which 8 constitutes the lower part, and 9 are the connected piping accommodated in the seat part which was connected to said heat exchanger 3 and divided on said base 1a at the back side of the main part 1.

[0014] The first declination part 3a which made said heat exchanger 3 incline caudad from the rear higher rank of the main part 1, The first upper part inclined part 3b which made the upper part incline from the lower end, and the second declination part 3c made to incline caudad from the upper bed, Forming in an abbreviated W character-like section by the second upper part inclined part 3d which made the upper part incline from the lower end, said drain pan 4 has composition provided in the lower part of said first declination part 3a and said first upper part inclined part 3b, and the lower part of said second declination part 3c and said second upper part inclined part 3d, respectively.

Only the part which made the surface area of said heat exchanger 3 increase, and raised heat exchanging efficiency by this can achieve miniaturization of the main part 1, and it can ventilate now effectively from said outlet 6 provided in the upper part of the main part 1, and becomes the structure which enabled it to aim at energy saving inevitably.

[0015] Only the part of the section extending 3e which showed drawing 1 the upper bed part of said first declination part 3a with the slash by having extended to the back of said blower fan 5 has structure to which enabled it to make the surface area of said heat exchanger 3 increase further.

[0016] As drawing 1 shows, the lower end of said first declination part 3a which counters said drain pan 4, and said first upper part inclined part 3b, and the lower end of said second declination part 3c and said second upper part inclined part 3d, Since the width dimension a of said drain pan 4 can be made small by having formed in the narrow shape where few horizontal levels b were given, it becomes the structure which enabled it to inhale efficiently the suction air from said suction opening 2 of the main part 1 lower part.

[0017] By having turned caudad the front face of the main part 1 which formed said suction opening 2 and said outlet 6, and having made it incline, the main part 1 order size can be miniaturized and it has composition which enabled it to ventilate effectively from said outlet 6 which made it project ahead as a result.

[0018] It has composition which enabled it to ventilate more effectively by having made the outlet 6 side incline low, and having formed said air duct between said blower fan 5 and said outlet 6.

[0019] Like the A section which shows drawing 1 the tip of said rear guider 7 with a dashed line, by having extended ahead, the position of said outlet 6 is moved to the position of front slippage 6' as a result, and also it has composition which enabled it to ventilate effectively.

[0020] Said seat part which accommodated said connected piping 9, It has the composition of having enabled it to accommodate said connected piping 9 efficiently, using effectively the back side of said first declination part 3a, by having given, divided and formed inclined part 1a' almost parallel to said first declination part 3a in said base 1a which counters said first declination part 3a.

[0021] As drawing 1 shows, by the above composition said heat exchanger 3, The first declination

part 3a made to incline caudad from the rear higher rank of the main part 1, and the first upper part inclined part 3b which made the upper part incline from the lower end, From the upper bed, by the second declination part 3c made to incline caudad and the second upper part inclined part 3d which made the upper part incline from the lower end, form in an abbreviated W character-like section and said drain pan 4, By having provided in the lower part of said first declination part 3a and said first upper part inclined part 3b, and the lower part of said second declination part 3c and said second upper part inclined part 3d, respectively, Only the part which made the surface area of said heat exchanger 3 increase, and raised heat exchanging efficiency can achieve miniaturization of the main part 1, and it can ventilate now effectively from said outlet 6 provided in the upper part of the main part 1, and becomes the air conditioner which enabled it to aim at energy saving inevitably.

[0022]

[Effect of the Invention]As mentioned above, according to this invention, while achieving miniaturization of a main part, the surface area of a heat exchanger is made to increase, heat exchanging efficiency is raised, and it becomes the air conditioner which enabled it to ventilate more effectively.

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## DESCRIPTION OF DRAWINGS

[Brief Description of the Drawings]

[Drawing 1]It is a sectional view of the air conditioner by this invention.

[Drawing 2]It is a sectional view of the air conditioner by a conventional example.

[Description of Notations]

1 Air conditioner body

1a base

1a' Inclined part

2 Suction opening

3 Heat exchanger

The 3a first declination part

The 3b first back inclined part

The 3c second declination part

The 3d second back inclined part

3e section extending

4 Drain pan

5 Blower fan

6 6' Outlet

7 Rear guider

8 Stabilizer

9 Connected piping

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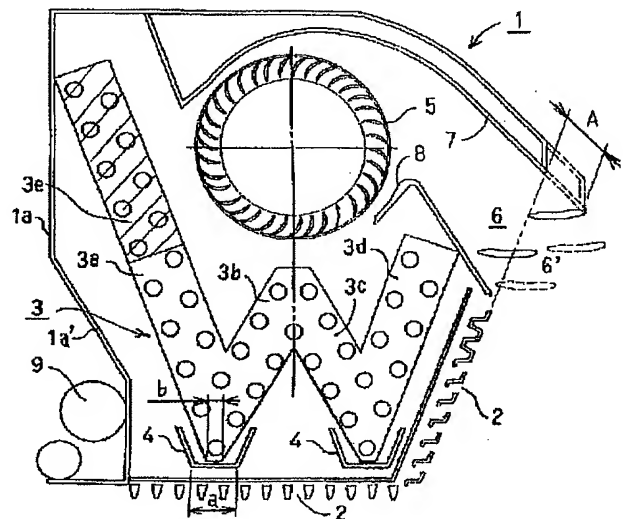
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(54) 【発明の名称】 空気調和機

(57) 【要約】

【課題】 本体のコンパクト化をはかるとともに、熱交換器の表面積を増加させて熱交換効率を向上させ、より効果的に送風できるようにした空気調和機を提供する。

【解決手段】 本体 1 の下部および前面下部に吸込口 2 を設け、同吸込口 2 と前面上部に設けた吹出口 6 とを結ぶ空気通路に設けた熱交換器 3 は、本体の後部上位から下方に傾斜させた第一下方傾斜部 3a と、その下端から上方に傾斜させた第一上方傾斜部 3b と、その上端から下方に傾斜させた第二下方傾斜部 3c と、その下端から上方に傾斜させた第二上方傾斜部 3d とで略 W 字状断面に形成し、ドレンパン 4 を、前記第一下方傾斜部および前記第一上方傾斜部の下部と、前記第二下方傾斜部および前記第二上方傾斜部の下部とに夫々設け、前記熱交換器の上方に送風ファン 5 を設けた。



## 【特許請求の範囲】

【請求項1】 本体の前面下部および下部に設けられた吸込口と、前面上部に設けられた吹出口と、これら吸込口および吹出口を結ぶ空気通路に設けられ、前記吸込口から吸い込まれた空気を熱交換する熱交換器およびその上方に位置させた送風ファンと、同送風ファンおよび前記吹出口間の前記空気通路の上下を構成するリヤガイドおよびスタビライザと、前記熱交換器の下部に設けられたドレンパンと、前記熱交換器に接続され、本体の背面側下部にベースにより区画した収容部に収容された接続配管とからなり、

前記熱交換器を、本体の後部上位から下方に傾斜させた第一下方傾斜部と、その下端から上方に傾斜させた第一上方傾斜部と、その上端から下方に傾斜させた第二下方傾斜部と、その下端から上方に傾斜させた第二上方傾斜部とで略W字状断面に形成し、前記ドレンパンを、前記第一下方傾斜部および前記第一上方傾斜部の下部と、前記第二下方傾斜部および前記第二上方傾斜部の下部とに夫々設けたことを特徴とする空気調和機。

【請求項2】 前記第一下方傾斜部の上端部を、前記送風ファンの後方まで延出したことを特徴とする請求項1記載の空気調和機。

【請求項3】 前記ドレンパンに対向する前記第一下方傾斜部および前記第一上方傾斜部の下端と、前記第二下方傾斜部および前記第二上方傾斜部の下端とを、狭幅形状に形成したことを特徴とする請求項1記載の空気調和機。

【請求項4】 前記吸込口および前記吹出口を設けた本体の前面を、下方に向けて傾斜させたことを特徴とする請求項1記載の空気調和機。

【請求項5】 前記送風ファンおよび前記吹出口間の前記空気通路を、同吹出口側を低く傾斜させて形成したことを特徴とする請求項1または請求項4記載の空気調和機。

【請求項6】 前記リヤガイドの先端を、前方に延出したことを特徴とする請求項1または請求項5記載の空気調和機。

【請求項7】 前記収容部は、前記第一下方傾斜部に対向する前記ベースに、前記第一下方傾斜部にほぼ平行な傾斜部をもたせて区画し形成したことを特徴とする請求項1記載の空気調和機。

## 【発明の詳細な説明】

## 【0001】

【発明の属する技術分野】本発明は、空気調和機に係わり、より詳細には、本体のコンパクト化をはかるとともに、熱交換器の表面積を増加させて熱交換効率を向上させ、より効果的に送風できるようにした構造に関する。

## 【0002】

【従来の技術】従来の空気調和機は、例えば図2で示すように、本体1の前面および上面に設けた吸込口2と、

前面下部に設けた吹出口6とを結ぶ空気通路に、垂直部3a'とその上端から後方に傾斜させた後方傾斜部3b'とその後端から下方に傾斜させた下方傾斜部3c'とで構成された熱交換器3と、送風ファン5とを設け、前記垂直部3a'と前記下方傾斜部3c'との下部にドレンパン4を設け、前記送風ファン5および前記吹出口6間の前記空気通路をベース1aに連続させたリヤガイド7およびスタビライザ8により構成し、同リヤガイド7の背面側に区画した収容部に前記熱交換器3に接続した接続配管9を収容していた。

【0003】しかしながら、本体のコンパクト化をはかるとともに、前記熱交換器3の表面積をより増加させて熱交換効率をより向上させ、前記吹出口6から更に効果的に送風できるようにするには、前記熱交換器3等が、上記に説明した構成のままでは必ずから限界があった。

## 【0004】

【発明が解決しようとする課題】本発明においては、上記の問題点を鑑み、本体のコンパクト化をはかるとともに、熱交換器の表面積を増加させて熱交換効率を向上させ、より効果的に送風できるようにした空気調和機を提供することを目的とする。

## 【0005】

【課題を解決するための手段】本発明は、上記問題点を解決するため、本体の前面下部および下部に設けられた吸込口と、前面上部に設けられた吹出口と、これら吸込口および吹出口を結ぶ空気通路に設けられ、前記吸込口から吸い込まれた空気を熱交換する熱交換器およびその上方に位置させた送風ファンと、同送風ファンおよび前記吹出口間の前記空気通路の上下を構成するリヤガイドおよびスタビライザと、前記熱交換器の下部に設けられたドレンパンと、前記熱交換器に接続され、本体の背面側下部にベースにより区画した収容部に収容された接続配管とからなり、前記熱交換器を、本体の後部上位から下方に傾斜させた第一下方傾斜部と、その下端から上方に傾斜させた第一上方傾斜部と、その上端から下方に傾斜させた第二下方傾斜部と、その下端から上方に傾斜させた第二上方傾斜部とで略W字状断面に形成し、前記ドレンパンを、前記第一下方傾斜部および前記第一上方傾斜部の下部と、前記第二下方傾斜部および前記第二上方傾斜部の下部とに夫々設けた構成となっている。

【0006】また、前記第一下方傾斜部の上端部を、前記送風ファンの後方まで延出した構成となっている。

【0007】また、前記ドレンパンに対向する前記第一下方傾斜部および前記第一上方傾斜部の下端と、前記第二下方傾斜部および前記第二上方傾斜部の下端とを、狭幅形状に形成した構成となっている。

【0008】また、前記吸込口および前記吹出口を設けた本体の前面を、下方に向けて傾斜させた構成となっている。

【0009】また、前記送風ファンおよび前記吹出口間

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の前記空気通路を、同吹出口側を低く傾斜させて形成した構成となっている。

【0010】また、前記リヤガイドの先端を、前方に延出した構成となっている。

【0011】更に、前記収容部は、前記第一下方傾斜部に対向する前記ベースに、前記第一下方傾斜部にほぼ平行な傾斜部をもたせて区画し形成した構成となっている。

【0012】

【発明の実施の形態】上記構造により、本体のコンパクト化をはかるとともに、熱交換器の表面積を増加させて熱交換効率を向上させ、より効果的に送風できるようにした空気調和機となる。

【0013】

【実施例】以下、本発明の実施例を図面に基づいて詳細に説明する。図1において、1は空気調和機の室内機本体、1aは同本体を構成するベース、2は同本体1の下部および前面下部に設けられた吸込口、3は同吸込口2と前記本体1の前面上部に設けられた後述する吹出口とを結ぶ空気通路に設けられた熱交換器、4は同熱交換器3の下端に対向して設けられたドレンパン、5は前記空気通路に設けられ、前記熱交換器3により熱交換された空気を後述する吹出口に送出するための送風ファン、6は同送風ファン5により前記吸込口2から吸い込まれ前記熱交換器3で熱交換された空気を、風向板を備えて室内に向けて吹き出すための吹出口、7は前記送風ファン5および前記吹出口6間の前記空気通路の上部を構成するリヤガイド、8は下部を構成するスタビライザ、9は前記熱交換器3に接続され、本体1の背面側に前記ベース1aで区画された収容部に収容された接続配管である。

【0014】前記熱交換器3は、本体1の後部上位から下方に傾斜させた第一下方傾斜部3aと、その下端から上方に傾斜させた第一上方傾斜部3bと、その上端から下方に傾斜させた第二下方傾斜部3cと、その下端から上方に傾斜させた第二上方傾斜部3dとで略W字状断面に形成し、前記ドレンパン4は、前記第一下方傾斜部3aおよび前記第一上方傾斜部3bの下部と、前記第二下方傾斜部3cおよび前記第二上方傾斜部3dの下部とに夫々設けた構成となっており、これによって、前記熱交換器3の表面積を増加させて熱交換効率を向上させた分だけ本体1のコンパクト化をはかることができ、本体1の上部に設けた前記吹出口6から効果的に送風できるようになり、必然的に省エネルギーをはかることができるようにした構造となる。

【0015】また、前記第一下方傾斜部3aの上端部を、前記送風ファン5の後方まで延出したことにより、図1に斜線で示した延出部3eの分だけ、前記熱交換器3の表面積を更に増加させることができるようにした構造となっている。

【0016】また、前記ドレンパン4に対向する前記第

一下方傾斜部3aおよび前記第一上方傾斜部3bの下端と、前記第二下方傾斜部3cおよび前記第二上方傾斜部3dの下端とを、図1で示すように、僅かな水平部bをもたせた狭幅形状に形成したことにより、前記ドレンパン4の幅寸法aを小さくできるので、本体1下部の前記吸込口2からの吸込空気を効率よく吸い込めるようにした構造となる。

【0017】また、前記吸込口2および前記吹出口6を設けた本体1の前面を、下方に向けて傾斜させたことにより、本体1の前後寸法をコンパクト化できて、結果的に前方に突出させた前記吹出口6から、効果的に送風できるようにした構成となっている。

【0018】また、前記送風ファン5および前記吹出口6間の前記空気通路を、同吹出口6側を低く傾斜させて形成したことにより、より効果的に送風できるようにした構成となっている。

【0019】また、前記リヤガイド7の先端を、図1に破線で示すA部のように、前方に延出したことにより、結果的に前記吹出口6の位置を前方寄り6'の位置に移動させて、更に効果的に送風できるようにした構成となっている。

【0020】更に、前記接続配管9を収容した前記収容部は、前記第一下方傾斜部3aに対向する前記ベース1aに、前記第一下方傾斜部3aにほぼ平行な傾斜部1a'をもたせて区画し形成したことにより、前記第一下方傾斜部3aの背面側を有効に使って前記接続配管9を効率よく収容できるようにした構成となっている。

【0021】以上の構成により、図1で示すように、前記熱交換器3は、本体1の後部上位から下方に傾斜させた第一下方傾斜部3aと、その下端から上方に傾斜させた第一上方傾斜部3bと、その上端から下方に傾斜させた第二下方傾斜部3cと、その下端から上方に傾斜させた第二上方傾斜部3dとで略W字状断面に形成し、前記ドレンパン4は、前記第一下方傾斜部3aおよび前記第一上方傾斜部3bの下部と、前記第二下方傾斜部3cおよび前記第二上方傾斜部3dの下部とに夫々設けたことによって、前記熱交換器3の表面積を増加させて熱交換効率を向上させた分だけ本体1のコンパクト化をはかることができ、本体1の上部に設けた前記吹出口6から効果的に送風できるようになり、必然的に省エネルギーをはかることができるようにした空気調和機となる。

【0022】

【発明の効果】以上のように本発明によると、本体のコンパクト化をはかるとともに、熱交換器の表面積を増加させて熱交換効率を向上させ、より効果的に送風できるようにした空気調和機となる。

【図面の簡単な説明】

【図1】本発明による空気調和機の断面図である。

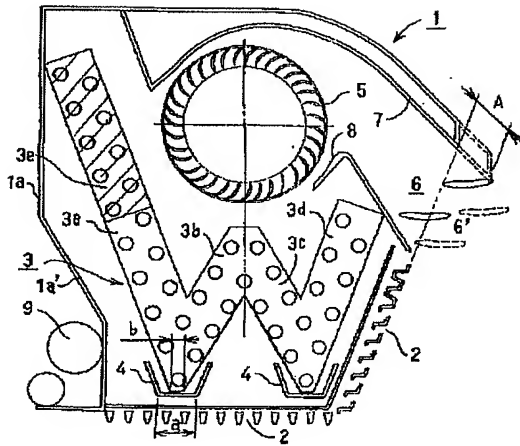
【図2】従来例による空気調和機の断面図である。

【符号の説明】

- 1 空気調和機本体
- 1a ベース
- 1a' 傾斜部
- 2 吸込口
- 3 熱交換器
- 3a 第一下方傾斜部
- 3b 第一後方傾斜部
- 3c 第二下方傾斜部

- \* 3d 第二後方傾斜部
- 3e 延出部
- 4 ドレンパン
- 5 送風ファン
- 6, 6' 吹出口
- 7 リヤガイド
- 8 スタビライザ
- \* 9 接続配管

【図1】



【図2】

